SW RGBHV Series

TWO, FOUR, AND SIX INPUT ANALOG RGBHV & STEREO AUDIO SWITCHERS

- Two, four, and six input analog RGBHV models with and without stereo audio
- 350 MHz (-3dB) RGB video bandwidth
- Input autoswitching capabilities
- Video Inputs and outputs on BNC connectors
- Input audio gain and attenuation
- 9-pin contact closure remote control
- RS-232 control
- Rugged metal enclosure
- Rack-mountable
- Internal international power supply



The Extron SW RGBHV Series analog RGBHV and stereo audio switchers are available in a variety of input configurations, as well as with or without audio. The SW RGBHV Series allows multiple high-resolution RGB video signals to be switched to one compatible display.



DESCRIPTION

The Extron SW RGBHV Series are active analog RGBHV switchers using BNC connectors. There are six switchers in the series. The SW2 RGBHV, SW4 RGBHV, and SW6 RGBHV are two, four, and six input, one output RGBHV video switchers, respectively. The SW2 RGBHV A, SW4 RGBHV A and SW6 RGBHV A are also two, four, and six input, one output RGBHV switchers, but also include several audio features. All models allow multiple RGBHV, RGBS, RGsB, RsGsBs, and RGB source inputs with composite video/sync (Europe SCART connections). With 350 MHz (-3dB) of RGB video bandwidth the SW RGBHV Series switchers can support a wide array of high-resolution signals.

The audio models of the SW RGBHV Series include captive screw audio connectors for balanced and unbalanced stereo audio sources. Each model with audio includes adjustable input gain and attenuation, allowing users to set the individual input audio levels, so that there is no significant difference in volume when switching between sources. All of the switchers can be controlled via front panel buttons or through a 9-pin contact closure remote control port. The 9-pin female D connector enables RS-232 control, as well as contact closure which allow the use of the Extron KP 6 Keypad Remote Control and the Extron IR 102 universal remote kit.



IR 102 Universal Remote Kit

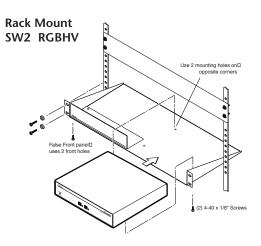
Each switcher is user-configurable for manual or autoswitching modes. The autoswitch function can be enabled or disabled via a toggle switch on the back panel. Autoswitching allows any input of the switcher to be selected automatically when the switcher detects a sync signal. For example, a number of wall plate receptacles can be installed around a room, each routed to a different input of a switcher. As soon as an active RGB source is connected to the wall plate, the switcher automatically selects that input.

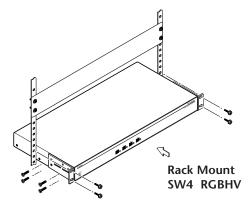


KP 6 Keypad Remote control

FEATURES

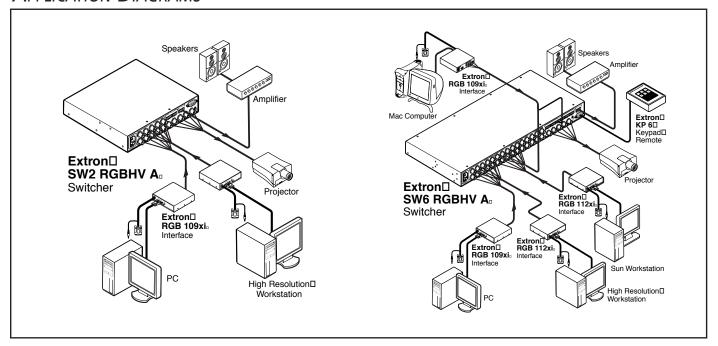
- Inputs Two, four, and six input models are available with BNC connectors throughout.
- Outputs All SW RGBHV Series switchers feature one output on female BNC connectors.
- Autoswitching Allows any input to be selected automatically when the switcher detects a source, making it ideal for automatic routing and unattended operation.
- Balanced and unbalanced stereo audio Accepts both balanced and unbalanced audio signals on 3.5 mm captive screw connectors.
- Input audio gain and attenuation The SW RGBHV/A Series allows users to set the level of audio gain or attenuation (-18dB to +24dB). Individual input audio levels may be adjusted so there is no noticeable volume difference between sources.
- RS-232 control A rear panel, RS-232 port enables control via a third party control system. Extron's Simple Instruction Set (SISTM) allows for quick and easy programming.
- KP 6 Keypad Remote Control The optional KP 6 switches the inputs on the SW RGBHV Series (four and six input models only). It comes with a 25-foot (8 meters) cable to connect the switcher's 9-pin remote control port to the KP 6.
- IR control With the optional IR 102 kit, the SW RGBHV switchers can be easily controlled with an IR 102 handheld remote
- Rack-mountable Two input models are housed in a half rack, 1U high enclosure that will fit in an Extron 1U 19-inch Rack Shelf Kit; four and six input models are 1U, full rack width enclosures that can be mounted into a rack without any additional hardware.
- Internal international power supply The 100-240VAC, 50/60Hz, autoswitchable, internal power supply provides worldwide power compatibility.



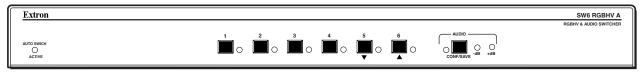


1/1050			
VIDEO			W 2/4/6 RGBHV A ONLY
Gain		Number/signal type	1 stereo, balanced/unbalanced
Bandwidth			1 3.5 mm captive screw connector,
Differential phase error	1.0%, 0 to 350 MHz		5 pole
Differential gain error		Impedance	50 ohms unbalanced, 50 ohms balanced
Crosstalk			-20dBV (100mV), -10dBV (316mV), 0dBu
Switching speed	5 ms (max.)	Maximum laval (Hi 7)	(0.775V), or +4dBu (1.23V), configurable >+20dBu, balanced or unbalanced at
VIDEO INDUT			stated %THD+N
VIDEO INPUT			>+15dBm, balanced or unbalanced at
Number/signal type	2.4.6.000111/1.0000.000.000.000		stated %THD+N
SW2/4/6	2, 4, 6 RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, composite	NOTE: 0dBu = 0.775 volts (RMS)	0 dBV = 1.0V.
	video	CONTROL (DEMOTE	CANTENER
Connectors		CONTROL/REMOTE —	
SW2 RGBHV/RGBHV A			RS-232, 9-pin female D connector
SW4 RGBHV/RGBHV A			(same as the contact closure port)
SW6 RGBHV/RGBHV A		Baud rate and protocol	9600, 8-bit, 1 stop bit, no parity
	Analog–0.3V to 1.5V p-p with no offset	Serial control	
Impedance		pin configurations	
Return loss			9-pin female D connector (same as the
Maximum DC offset	5.00		RS-232 port)
		Contact closure pin configurations	1 - input #1 4 - input #2
VIDEO OUTPUT			6 = input #1, 4 = input #2, 6 = input #3, 7 = input #4,
Number/signal type			8 = input #5, 9 = input #6
All models	1 RGBHV, RGBS, RGsB, RsGsBs,	Program control	Extron's control program for Windows®
	component video, S-video, composite		Extron's Simple Instruction Set™ – SIS™
	video (or digital audio)		Extroris simple instruction set
Connectors		GENERAL	
All models			
Impedance	75 ohms	Power	
			20 watts, internal, autoswitchable
SYNC		Rack mount	
Input type	RGBHV (except SW6 YUV A), RGBS,	SW2 RGBHV, SW2 RGBHV A	Vos with antional rack shelf
I i put type	RGsB, RsGsBs	3VVZ KGBHV A	part #60-190-01
Output type	RGBHV (except SW6 YUV A), RGBS,	All other models	Yes with included bracket kit
1	RGsB, RsGsBs		part #70-077-03
Input level	Analog or TTL, 0.5V to 5.0V p-p	Enclosure type	
Output level	5.0V p-p (if not terminated)	Enclosure dimensions	
Input impedance	510 ohms	SW2 RGBHV,	
Output impedance	75 ohms	SW2 RGBHV A	1.75" H x 8.75" W x 9.5" D
Max. input voltage	5.0V p-p		(1U high, half rack width) 4.4 cm H x
Max. propagation delay			22.2 cm W x 24.1 cm D
Max. rise/fall time			(Depth excludes connectors.)
Polarity	Positive or negative (follows input)	All other models	
AUDIO CW 2/4/6	D C D LIV A C D LIV		(1U high, full rack width) 4.4 cm H x
AUDIO — SW 2/4/6	KGRHA A ONLA		44.5 cm W x 21.6 cm D (Depth excludes connectors.)
Gain	Adjustable when audio gain is set to	Product weight	(Deptil excludes connectors.)
	unity (0dB), balanced output will have	SW2 RGBHV, SW2 RGBHV A	4.0 lbs (1.8 kg)
	a 0dB gain; unbalanced output will be	All other models	
	attenuated by 6dB.	Shipping weight	7.10 lbs (3.2 llg)
Frequency response		SW2 RGBHV, SW2 RGBHV A	8 lbs (3.6 kg)
	0.03% @ 1 kHz, 0.3% @ 20 kHz at	All other models	
	rated maximum output drive	Listings	UL, CUL
	>90dB at rated maximum output drive <-65dB @ 20 kHz, <-80dB @ 1 kHz or	Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
Closstalk	below 60 Hz	MTBF	
Stereo channel separation		Warranty	3 years parts and labor
CMRR		Model	Dout Number
		Model RGBHV Only Models	Part Number
AUDIO INPUT — SV	V 2/4/6 RGBHV A ONLY	SW2 RGBHV	60-491-01
		SW4 RGBHV	
	2, 4, or 6 stereo, balanced/unbalanced	SW6 RGBHV	
Connectors	2, 4, or 6 3.5 mm captive screw	RGBHV & Audio Models	
luan adamas	connectors, 5 pole	SW2 RGBHV A	60-491-21
impedance	>10 kohms unbalanced, 20 kohms	SW4 RGBHV A	60-492-21
Nominal level (configurable)	balanced, DC coupled20dBV (100mV), -10dBV (316mV),	SW6 RGBHV A	60-493-21
	20dbv (100mv), -10dbv (316mv), 0dBu (0.775V), or +4dBu (1.23V),	IR 102 Kit	
Maximum level	+20dBu, (balanced or unbalanced) at	KP 6 Keypad Remote control	60-111-20
	stated %THD+N		
Input gain adjustment	18dB to +24dB, adjustable per input		
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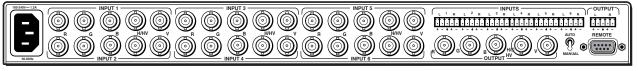
APPLICATION DIAGRAMS



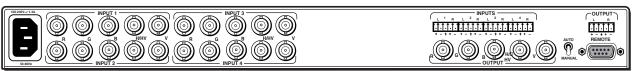
PANEL DRAWINGS



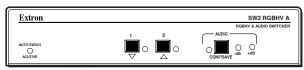
SW6 RGBHV A (Front)



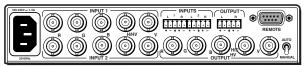
SW6 RGBHV A (Back)



SW4 RGBHV A (Back)



SW2 RGBHV A (Front)



SW2 RGBHV A (Back)



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